



FIG. 1

11

$$A = \begin{pmatrix} 1 & 0 & 0 & 1 \\ 0 & 1 & 0 & -1 \\ 0 & 0 & 1 & +1 \\ 1 & -1 & +1 & -1 \end{pmatrix}$$

START

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Attorney Docket: US 020050  
BUSINESS TEST UTILIZING AUTO-CORRELATION  
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Generate  
Random  
numbers

Shift the numbers  
by a specified  
amount

calculate  
dot product

Is  
the frequency  
within a predetermined  
range?

Determine that  
irregular pattern  
occurred & Increase  
the counter by 1

Is  
the counter  
> a threshold  
value?

Deactivate  
the switch

END

FIG. 3

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